

CLAIMS

1. Fluid product dispensing device comprising a reservoir (10) containing the fluid product, a dispensing unit (20) such as a pump or a valve to dispense the product contained in the said reservoir (10), and a dispensing head (30) to manually actuate the said dispensing unit (20), characterised in that the said reservoir (10) is a multifunction reservoir made in a single piece and comprising at least one of the following elements:
 - 10 (a) at least one orifice (15) adapted to hold at least one filter (50) to filter air entering inside the reservoir (10) whenever the dispensing unit (20) is actuated ; and
 - (b) a neck seal (18) over moulded on the neck (19) of the said reservoir (10).
2. Device according to claim 1, in which the said reservoir also comprises at least a first radial projection (11) cooperating with the said dispensing head (30) to prevent the said head (30) from being torn off.

3. Device according to claim 2, in which the said reservoir (10) also comprises at least one second radial projection (12) cooperating with the said dispensing head (30) to define a stop with the said head (30) during actuation thus defining the actuation profile of the dispensing device, the said at least one second radial projection (12) being at an axial spacing from the said at least one first radial projection (11).

10 4. Device according to any one of the above claims, in which the said at least one filter (50) received at the said at least one orifice (15) is snap fitted, welded or over moulded on the said reservoir (10).

15 5. Device according to any one of the above claims, in which the said at least one orifice (15) adapted to hold the said at least one filter (50) is made in a sidewall of the reservoir (10).

20 6. Device according to any one of the above claims, in which the said reservoir (10) is made by injection blow moulding of a synthetic material, such as a thermoplastic material.

25 7. Device according to any one of the above claims, in which the said over moulded neck seal (18) is an injected thermoplastic elastomer material (TPE), the reservoir (10) and the over moulded seal (18) being made by dual injection blow moulding.

30 8. Device according to any one of the above claims, in which the upper radial surface of the reservoir (10) comprises a reception profile (17) adapted to hold the said over moulded seal (18).